

Title (en)
SEMICONDUCTOR INTEGRATED CIRCUIT

Publication
EP 0166003 B1 19910320 (EN)

Application
EP 85900191 A 19841214

Priority
JP 23616083 A 19831216

Abstract (en)
[origin: US4670768A] PCT No. PCT/JP84/00597 Sec. 371 Date Aug. 14, 1985 Sec. 102(e) Date Aug. 14, 1985 PCT Filed Dec. 14, 1984 PCT Pub. No. WO85/02716 PCT Pub. Date Jun. 20, 1985. A semiconductor integrated circuit comprising semiconductor regions in the form of first and second protruding poles that are provided on a semiconductor layer formed on a semiconductor substrate or an insulating substrate, and that are opposed to each other with an insulating region sandwiched therebetween, a p-channel FET provided in the first semiconductor region, and an n-channel FET provided in the second semiconductor region. These FET's have source and drain regions on the upper and bottom portions of the semiconductor regions, and have gate electrodes on the sides of the semiconductor regions. The insulation region between the protruding pole-like semiconductor regions is further utilized as the gate electrode and the gate insulating film.

IPC 1-7
H01L 27/08; H01L 29/78

IPC 8 full level
H01L 21/822 (2006.01); **H01L 21/8238** (2006.01); **H01L 27/04** (2006.01); **H01L 27/06** (2006.01); **H01L 27/08** (2006.01); **H01L 27/092** (2006.01); **H01L 27/11** (2006.01); **H01L 29/78** (2006.01); **H01L 29/786** (2006.01)

CPC (source: EP US)
H01L 21/8221 (2013.01 - EP US); **H01L 21/823885** (2013.01 - EP US); **H01L 27/0688** (2013.01 - EP US); **H01L 27/092** (2013.01 - EP US); **H01L 29/7827** (2013.01 - EP US); **H01L 29/78642** (2013.01 - EP US); **H10B 10/12** (2023.02 - EP US)

Cited by
EP0261666A1; EP0284065A3; EP0487083A3; US5312782A

Designated contracting state (EPC)
DE NL

DOCDB simple family (publication)
US 4670768 A 19870602; DE 3484313 D1 19910425; EP 0166003 A1 19860102; EP 0166003 A4 19870629; EP 0166003 B1 19910320; JP S60128654 A 19850709; WO 8502716 A1 19850620

DOCDB simple family (application)
US 76779485 A 19850814; DE 3484313 T 19841214; EP 85900191 A 19841214; JP 23616083 A 19831216; JP 8400597 W 19841214